IOWA STATE JOURNAL OF RESEARCH / MAY, 1981 401-403
Vol. 55, No. 4

IOWA STATE JOURNAL OF RESEARCH
TABLE OF CONTENTS
Volume 55
(August, 1980—May, 1981)

No. 1, August, 1980

NJI, A. A methodology for technology assessment: A functional-structural approach 1

DOS REIS, N. V. B. and R. H. SHAW. Moisture-stress patterns and corn yields in northwestern Iowa and adjacent areas 13

GORDER, G. W., J. J. TOLLEFSON, and P. A. DAHM. Carbofuran residue analysis and control of corn rootworm larval damage 25

GUTHRIE, W. D., F. A. ONUKOGU, W. H. AWADALLAH, J. C. ROBBINS, and M. L. LODHOLZ. Changes in survival and development of cultures of European corn borers reared in the laboratory on a meridic diet 35

HATFIELD, J. L. and R. E. CARLSON. Spectral and photosynthetically active radiation transmission patterns within soybean canopies 47

BASTIAN, R. and G. J. BUCK. An alternative method for the field propagation of roses 61

Author-title list of theses and dissertations, Iowa State University (Summer, 1979—Spring, 1980) 65

* * * * * * * * * * *

No. 2, November, 1980

MERCIER, J. M. Development of an instrument to measure attitudes toward family planning education 99

SHAW, R. H., K. ROSS, and C. MEYERS. Evaluation of the management, yield, and water-use interactions on corn in northwestern Iowa 119

THOMPSON, G. W. Iowa's disappearing woodlands 127

McLEAN, D. D. Perceived impacts of professional accreditation as viewed by leisure services administrators and teaching faculty 141

ISELY, D., R. W. POHL, and R. G. PALMER. *Neonotonia verdcourtii* (Leguminosae): A new Glycine-like species from Africa ... 157

SALEH, J. P. and J. B. SCHULTZ. High school students' attitudes toward guidance and discipline of children 163

JOHNSON, E. J. and L. B. BEST. Breeding biology of the gray catbird in Iowa 171

ZIOMEK, R. L. and L. G. SMITH. A proposed refinement of the Ross Educational Philosophical Inventory (REPI)..... 185

* * * * * * * * * * *

No. 3, February, 1981

From the Editors..... 207

CARVER, G. W. Plants as modified by man 209

ARTHUR, J. C. On the structure of *Echinocystis lobata*..... 219

RUBIO-MORAN, R., W. A. ROWLEY, and J. R. COATS. Effect of permethrin and malathion on *Aedes trivittatus* and *Culex pipiens pipiens*..... 235

WESSEL, R. I. Athletics and their effects on female teachers in public schools in Iowa..... 245

KLEMKE, E. D. Some misinterpretations of Karl Popper..... 253

POHL, R. W. and M. C. ALBERTSEN. Interspecific hybrids of *Zea mays* and *Z. diploperennis* 257

HVIZDOS, M. A. and S. G. CLARK. Young children's concepts of human birth 261

STOCKDALE, D. F. and D. PEASE. Social interaction in same-sex and opposite-sex dyads among school-age children 267

SNYDER, J. B., A. M. FANSLOW, and H. P. NJUS. Food consumption patterns of expanded food and nutrition education program participants in Iowa..... 279

NOLAND, S. Some major deterrents to the decentralization of universities in Iran: The case of Farabi University..... 287

* * * * * * * * * * *

No. 4, May, 1981

From the Editors..... 297

KENOYER, L. A. Environmental influences on nectar secretions.. 299

WELCH, M. B. Woman in the home 303

BUTRICA, A. J. The influence of Neoplatonist thought on William Harvey 311

HOLLANDER, W. F. and W. J. MILLER. Hereditary variants of behavior in the pigeon 323

COMPTON, C. W. Female and male entrepreneurs: A comparison of their businesses and background characteristics 333

BUENO, A. and R. E. ATKINS. Estimation of individual leaf areas in grain sorghum 341

HSU, S. and P. A. PETERSON. Relative stage duration of microsporogenesis in maize 351

NAGY, P. and E. M. JARCHOW. Factors affecting scores on written composition 375

CHU, C. and W. A. BRINDLEY. Effects of diflubenzuron on alfalfa weevil larvae and upon toxicity of methidathion and carbofuran 387

HAMMOND, E. G. and R. J. SMITH. Survey of some molecularly dispersed odorous constituents in swine-house air 393

Contents, Iowa State Journal of Research, Vol. 55 (August 1980–May, 1981) 401